

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
UTILITY PATENT APPLICATION TRANSMITTAL

FIRST NAMED INVENTOR OR APPLICATION IDENTIFIER: Paul J. DeGroot, et al.

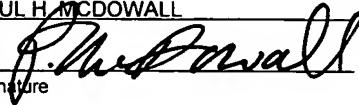
TITLE: SLOW RISE DEFIBRILLATION WAVEFORMS TO MINIMIZE STORED ENERGY FOR A PULSE MODULATED CIRCUIT
AND MAXIMIZE CHARGE TRANSFER TO MYOCARDIAL MEMBRANE



16519 U.S. PTO
102403

Commissioner for Patents
BOX PATENT APPLICATION
Washington, D.C. 20231

CERTIFICATE UNDER 37 CFR §1.10: I hereby certify that this Utility Patent Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service, in an envelope addressed to: Mail Stop Patent Application, Commissioner of Patents, Alexandria, VA 22313, "EXPRESS No. EV 331 793 113 US, on this 24th day of October, 2003.

PAUL H. McDOWALL
Printed Name

Signature

22582 U.S. PTO
10/693763
102403

Sir:

We are transmitting herewith the attached:

Patent Application Transmittal
 Specification:
Total pages: 40 (including claims and abstract: Spec. 33 sheets; Claims 6 sheets; Abstract 1
 Drawings:

Total sheets: 11
 formal informal

Combined Declaration and Power of Attorney:
 unexecuted
 copy from prior application
 Deletion of Inventor(s) - Signed statement attached deleting inventor(s) named in the prior application (37 CFR 1.63(d)(2) and 1.33(b))
 Incorporation by Reference - *The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied above is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.*
 Accompanying application parts:
 Notification of filing a
 Assignment of the Invention to Medtronic, Inc.
 Assignment cover sheet
 Information Disclosure Statement
 PTO Form 1449
 Copies of IDS citations
 Preliminary Amendment
 A copy of the Petition or Conditional Petition for Extension of Time in the prior application.
 Return Postcard

IF A CONTINUING APPLICATION:

Continuation Divisional Continuation-in-part (CIP)
of prior application Serial No. _____.

Amend the specification by inserting before the first line the sentence: This application is a _____.

Cancel in this application original claims _____ of the prior application before calculating the filing fee.
(At least the original independent claim must be retained for filing purposes.)

The prior application is assigned of record to Medtronic, Inc.

The Power of Attorney in the prior application is to: _____.

This application claims the benefit of U.S. Provisional Application(s) Serial No.(s) 60/430,797, filed December 3, 2002

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FEE CALCULATION	No. of Claims Filed	Claims Included in Base Fee	No. of Extra Claims	Rate	Fee
Total Claims	32	20	= 12	x 18	\$216.00
Independent Claims	3	3	= 0	x 86	0.00
Multiple Dependent Claims			0	+ 280	
Basic Filing Fee					\$770.00
				TOTAL	\$ 986.00

Charge Deposit Account No. 13-2546 in the amount of \$986.00 for the filing fee.

The Commissioner is hereby authorized to charge any fees which may be required under 37 CFR 1.16 and 1.17, or credit any overpayment to Deposit Account No. 13-2546. A duplicate of this transmittal is enclosed.

Date

24 Oct. 03



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